L Number	Hits	Search Text	DB	Time stamp
1	19	(collateral AND ((stream$3 data) OR(information stream))) AND ((quer$4 OR recogniz$3 OR search$3) AND (event$ OR topic) AND (rank$3 OR scor$3) AND (multi adj2 media))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:49
2	44	(analyze AND ((search OR quer$) AND (collateral AND (information stream)))) AND rank$4 and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:50
3	44	(analyze AND ((search OR quer$) AND (collateral AND (information stream)))) AND rank$4 and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:50
4	11	(((((analyz$3 AND ((search OR quer$) AND (collateral AND (information stream)))) AND rank$4) AND event$) AND segment$3) AND classification$ and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:51
5	46	(analyz$3 AND ((search OR quer$) AND (collateral AND (information stream)))) AND rank$4 and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:53
6	11	(analyze AND ((search OR quer$) AND (collateral AND (information stream)))) AND (multi ADJ2 media) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:57
8	8	((((collateral AND (information stream)) AND inclu$4) AND (quer$4 OR search$3)) AND databas$2) AND (rank$ near3 select$3) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:58
9	4	(concept$2 SAME knowledge) AND event$ AND quer$3 AND (result$2 SAME rank$3) AND criter$ AND(automat$ SAME extrac$3) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 13:59
10	8	(concept$2 SAME knowledge) AND event$ AND quer$3 AND (result$2 SAME rank$3) AND(automat$ SAME extrac$3) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:49
11	0	(topic or topics) SAME "subject matter" SAME concept SAME (tree or hierarchy) SAME taxonom$3 and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:50
12	63	(((topic or topics) SAME "subject matter") AND concept$) and (tree or hierarchy) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:52
13	16	((speech near recognition) same (quer$ or search$ or retriev$) same database$).ti. and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:53
14	33	examin$3 same ((stream$3 data) OR (information stream)) same (recongniz$3 or identify$3) near5 event$1 and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:54
15	10	(event$ AND quer$3 AND (result$2 SAME rank$3) AND criter$ AND(automat$ SAME extrac$3)) AND (extract$ Near2 text$2) and @ad<20000331	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:57
16	4	(((speech near recognition) same (quer$3 or search$3 or retriev$3) same database$2) and @ad<20000130) and (automatic or automatically) adj5 extract$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/21 15:58

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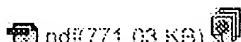
1 Building effective queries in natural language information retrieval
Tomek Strzalkowski, Fang Lin, Jose Perez-Carballo, Jin Wang
March 1997   **Proceedings of the fifth conference on Applied natural language processing**

Full text available: ⊡ pdf(771.03 KB) 🔖
Publisher Site

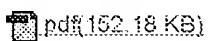Additional Information: full citation, abstract, references, citings

In this paper we report on our natural language information retrieval (NLIR) project as related to t
concluded 5th Text Retrieval Conference (TREC-5). The main thrust of this project is to use natura
processing techniques to enhance the effectiveness of full-text document retrieval. One of our goa
demonstrate that robust if relatively shallow NLP can help to derive a better representation of text
statistical search. Recently, we have turned our attenti ...

2 Mining new media: Newsjunkie: providing personalized newsfeeds via analysis of informatio
Evgeniy Gabrilovich, Susan Dumais, Eric Horvitz
May 2004   **Proceedings of the 13th conference on World Wide Web**

Full text available: ⊡ pdf(152.18 KB)   Additional Information: full citation, abstract, references, index terms

We present a principled methodology for filtering news stories by formal measures of information
how the techniques can be usedto custom-tailor news feeds based on information that a user has
We review methods for analyzing novelty and then describe Newsjunkie, a system that personalize
by identifying the novelty of stories in the context of stories they have already reviewed. Newsjun!
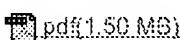novelty-analysis algorithms that represent articl ...

Keywords: news, novelty detection, personalization

3 Extracting usability information from user interface events
David M. Hilbert, David F. Redmiles
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available: ⊡ pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index te

Modern window-based user interface systems generate user interface events as natural products c
operation. Because such events can be automatically captured and because they indicate user beh
to an application's user interface, they have long been regarded as a potentially fruitful source of i
regarding application usage and usability. However, because user interface events are typically vo
in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interface

4 Open-vocabulary speech indexing for voice and video mail retrieval
M. G. Brown, J. T. Foote, G. J. F. Jones, K. Spärck Jones, S. J. Young
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available: pdf(1.82 MB)   Additional Information: full citation, references, citings, index terms

Keywords: audio indexing, browsing, content-based retrieval, information retrieval, speech recog
spotting

5 Multimedia Information Processing: Automatic discovery of salient segments in imperfect spe
Dulce Ponceleon, Savitha Srinivasan
October 2001 **Proceedings of the tenth international conference on Information and knowlec management**

Full text available: pdf(117 97 KB)   Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of automatic detection of salient video segments for real-world
as corporate training based on associated speech transcriptions. We present a novel segmentation
on automatic speech recognition (ASR) applied to the audio track of the video. Our feature set cor
grams extracted from the imperfect speech transcriptions. We use a two-pass algorithm that coml
based method with a content-based method. In th ...

6 Detecting topical events in digital video
Tanveer Syeda-Mahmood, S. Srinivasan
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, citings, index te

The detection of events is essential to high-level semantic querying of video databases. It is also a
problem requiring the detection and integration of evidence for an event available in multiple infor
modalities, such as audio, video and language. This paper focuses on the detection of specific type
namely, topic of discussion events that occur in classroom/lecture environments. Specifically, we p
driven approach to the detection of topic of ...

Keywords: multi-modal fusion, query-driven topic detection, slide detection, topic of discussion e
audio events

7 Early user—system interaction for database selection in massive domain-specific online env
Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(845 64 KB)   Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in addition to
Web, increases the importance of effective and efficient database selection and searching. Current
largely on completely autonomous and automatic selection, searching, and results merging in disti
environments. This fully automatic approach has significant deficiencies, including reliance upon th
which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and i
interaction

8 Temporal summaries of new topics

James Allan, Rahul Gupta, Vikas Khandelwal

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Res**
development in information retrieval

Full text available: pdf(146.56 KB)   Additional Information: full citation, abstract, references, citings, index te

We discuss technology to help a person monitor changes in news coverage over time. We define t
summaries of news stories as extracting a single sentence from each event within a news topic, w
are presented one at a time and sentences from a story must be ranked before the next story can
We explain a method for evaluation, and describe an evaluation corpus that we have built. We als
methods for constructing temporal summaries and evalu ...

Keywords: experimental design, metrics, summarization

9 Web technologies: Using web helper agent profiles in query generation

Gabriel L. Somlo, Adele E. Howe

July 2003   **Proceedings of the second international joint conference on Autonomous agen**
multiagent systems

Full text available: pdf(154.84 KB)   Additional Information: full citation, abstract, references, index terms

Personalized information agents can help overcome some of the limitations of communal Web info
such as portals and search engines. Two important components of these agents are: user profiles
filtering or gathering services. Ideally, these components can be separated so that a single user p
leveraged for a variety of information services. Toward that end, we are building an information a
SurfAgent; in previous studies, we have develope ...

Keywords: information agents, query generation, user modeling

10 Cross-lingual C*ST*RD: English access to Hindi information

Anton Leuski, Chin-Yew Lin, Liang Zhou, Ulrich Germann, Franz Josef Och, Eduard Hovy

September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volum

Full text available: pdf(210.61 KB)   Additional Information: full citation, abstract, references, index terms

We present C*ST*RD, a cross-language information delivery system that supports cross-language
retrieval, information space visualization and navigation, machine translation, and text summariza
documents and clusters of documents. C*ST*RD was assembled and trained within 1 month, in th
DARPA's Surprise Language Exercise, that selected as source a heretofore unstudied language, Hi
brief time, we could not create deep Hindi capabilities for all th ...

Keywords: Cross-language information retrieval, Hindi-to-English machine translation, headline c
information retrieval and information space navigation, single- and multi-document text summariz

11 Novelty and topic change: Retrieval and novelty detection at the sentence level

James Allan, Courtney Wade, Alvaro Bolivar

July 2003   **Proceedings of the 26th annual international ACM SIGIR conference on Resear**
development in informaion retrieval

Full text available: pdf(206.28 KB)   Additional Information: full citation, abstract, references, index terms

Previous research in novelty detection has focused on the task of finding novel material, given a s
documents on a certain topic. This study investigates the more difficult two-part task defined by t
novelty track: given a topic and a group of documents relevant to that topic, 1) find the relevant s
the documents, and 2) find the novel sentences from the collection of relevant sentences. Our res

the former step appears to be the more diffic ...

Keywords: TREC, novelty, redundancy, relevant sentences

12 Challenges in information retrieval and language modeling: report of a workshop held at the intelligent information retrieval, University of Massachusetts Amherst, September 2002
James Allan, Jay Aslam, Nicholas Belkin, Chris Buckley, Jamie Callan, Bruce Croft, Sue Dumais, Norb Harman, David J. Harper, Djoerd Hiemstra, Thomas Hofmann, Eduard Hovy, Wessel Kraaij, John Laft Lavrenko, David Lewis, Liz Liddy, R. Manmatha, Andrew McCallum, Jay Ponte, John Prager, Dragomil Resnik, Stephen Robertson, Roni Rosenfeld, Salim Roukos, Mark Sanderson, Rich Schwartz, Amit Sin Smeaton, Howard Turtle, Ellen Voorhees, Ralph Weischedel, Jinxi Xu, ChengXiang Zhai
April 2003   **ACM SIGIR Forum**, Volume 37 Issue 1
Full text available: 📄 pdf(1.60 MB)   Additional Information: full citation

13 Scalable feature selection, classification and signature generation for organizing large text d: hierarchical topic taxonomies
Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
August 1998   **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume
Full text available: 📄 pdf(281.37 KB)   Additional Information: full citation, abstract, citings, index terms

We explore how to organize large text databases hierarchically by topic to aid better searching, br filtering. Many corpora, such as internet directories, digital libraries, and patent databases are mai into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies ma access more efficient. However, the exponential growth in the volume of on-line textual informatic impossible to maintain such taxono ...

14 Information filtering and information retrieval: two sides of the same coin?
Nicholas J. Belkin, W. Bruce Croft
December 1992 **Communications of the ACM**, Volume 35 Issue 12
Full text available: 📄 pdf(3.58 MB)   Additional Information: full citation, references, citings, index terms, revi

Keywords: information filtering, information retrieval

15 Searching across language, time, and space: Detecting events with date and place informati unstructured text
David A. Smith
July 2002   **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**
Full text available: 📄 pdf(136.87 KB)   Additional Information: full citation, abstract, references, citings, index te

Digital libraries of historical documents provide a wealth of information about past events, often in form. Once dates and place names are identified and disambiguated, using methods that can diffe examine collocations to detect events. Collocations can be ranked by several measures, which var according to type of events, but the log-likelihood measure (-2 log &lgr;) offers a reasonable balar frequently and infrequently mentioned events and ...

Keywords: event detection, geographic visualization, phrase browsing

16 A synchronization model for recorded presentations and its relevance for information retrieve

W. Hürst, R. Müller

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part**

Full text available: pdf(1.64 MB)   Additional Information: full citation, abstract, references, citings, index te

In order to improve the acceptance of recorded presentations, we introduce a new open document
wide range of different media classes typically appearing in this scenario. Instances of this docume
replayed using our time-based synchronization model. Random access in combination with the rea
stream/media-layered synchronization mechanism results in essential features such as Random Vi
Unrestricted Cross-Referencing ...

17 Machine learning in automated text categorization
Fabrizio Sebastiani
March 2002   **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB)   Additional Information: full citation, abstract, references, citings, index te

The automated categorization (or classification) of texts into predefined categories has witnessed a
interest in the last 10 years, due to the increased availability of documents in digital form and the
organize them. In the research community the dominant approach to this problem is based on ma
techniques: a general inductive process automatically builds a classifier by learning, from a set of
documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

18 Information Retrieval: Query-free news search
Monika Henzinger, Bay-Wei Chang, Brian Milch, Sergey Brin
May 2003   **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(126.70 KB)   Additional Information: full citation, abstract, references, citings, index te

Many daily activities present information in the form of a stream of text, and often people can ben
additional information on the topic discussed. TV broadcast news can be treated as one such strea
paper we discuss finding news articles on the web that are relevant to news currently being broad
a variety of algorithms for this problem, looking at the impact of inverse document frequency, ster
compounds, history, and query length on the relevance a ...

Keywords: query-free search, web information retrieval

19 Filtering: Improving realism of topic tracking evaluation
Anton Leuski, James Allan
August 2002   **Proceedings of the 25th annual international ACM SIGIR conference on Resear
development in information retrieval**

Full text available: pdf(265.85 KB)   Additional Information: full citation, abstract, references, index terms

Topic tracking and information filtering are models of interactive tasks, but their evaluations are g
way that does not reflect likely usage. The models either force frequent judgments or disallow any
the user is always available to make a judgment, and do not allow for user fatigue. In this study w
evaluation framework for topic tracking to incorporate those more realistic issues. We demonstrate
can be done in a realistic interactive se ...

Keywords: filtering, interactive tracking, topic detection and tracking

20 Information retrieval session 8: efficiency: Efficient query evaluation using a two-level retriev
Andrei Z. Broder, David Carmel, Michael Herscovici, Aya Soffer, Jason Zien
November 2003 **Proceedings of the twelfth international conference on Information and knov**

management

Full text available: 📄 pdf(246.95 KB)   Additional Information: full citation, abstract, references, index terms

We present an efficient query evaluation method based on a two level approach: at the first level, iterates in parallel over query term postings and identifies candidate documents using an *approxin* taking into account only partial information on term occurrences and no query independent factors level, promising candidates are *fully evaluated* and their exact scores are computed. The efficiency process can be improved signific ...

Keywords: WAND, document-at-a-time, efficient query evaluation

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1 Knowledge Management: Organizing What You Know: Towards speech as a knowledge resource ▩

Eric Brown, Savitha Srinivasan, Anni Coden, Dulce Ponceleon, James Cooper, Arnon Amir, Jan Pieper

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: 📄 pdf(2.24 MB)   Additional Information: full citation, abstract, references, index terms

Speech is a tantalizing mode of human communication. On the one hand, humans understand speech with ease and use speech to express complex ideas, information, and knowledge. On the other hand, automatic speech recognition with computers is still very hard, and extracting knowledge from speech is even harder. In this paper we motivate the study of speech as a knowledge resource and briefly survey a family of related applications and systems being developed at IBM Research aimed towards the goal o ...

2 Information Retrieval: Query-free news search ▩

Monika Henzinger, Bay-Wei Chang, Brian Milch, Sergey Brin

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: 📄 pdf(126.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

Many daily activities present information in the form of a stream of text, and often people can benefit from additional information on the topic discussed. TV broadcast news can be treated as one such stream of text; in this paper we discuss finding news articles on the web that are relevant to news currently being broadcast.We evaluated a variety of algorithms for this problem, looking at the impact of inverse document frequency, stemming, compounds, history, and query length on the relevance a ...

Keywords: query-free search, web information retrieval

3 The FINITE STRING newsletter: Abstracts of current literature ▩

Computational Linguistics Staff

July 1986 **Computational Linguistics**, Volume 12 Issue 3

Full text available: 📄 pdf(2.25 MB)
📄 Publisher Site
Additional Information: full citation

4 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

5 Searching the Web

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available: pdf(319.98 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

6 Hancock: A language for analyzing transactional data streams

Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick Smith

March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 26 Issue 2

Full text available: pdf(217.55 KB)   Additional Information: full citation, abstract, references, index terms

Massive transaction streams present a number of opportunities for data mining techniques. The transactions in such streams might represent calls on a telephone network, commercial credit card purchases, stock market trades, or HTTP requests to a web server. While historically such data have been collected for billing or security purposes, they are now being used to discover how the transactors, for example, credit-card numbers or IP addresses, use the associated services.Over the past 5 years, w ...

Keywords: Domain-specific languages, data mining, statistical models

7 Extracting usability information from user interface events

David M. Hilbert, David F. Redmiles

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminos and rich in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

8 Information Retrieval: Predictive caching and prefetching of query results in search engines
Ronny Lempel, Shlomo Moran
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(212.73 KB)   Additional Information: full citation, abstract, references, index terms

We study the caching of query result pages in Web search engines. Popular search engines receive millions of queries per day, and efficient policies for caching query results may enable them to lower their response time and reduce their hardware requirements. We present PDC (probability driven cache), a novel scheme tailored for caching search results, that is based on a probabilistic model of search engine users. We then use a trace of over seven million queries submitted to the search engine A ...

Keywords: caching, query processing and optimization

9 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: pdf(316.85 KB)   Additional Information: full citation, abstract, references, index terms

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

10 Beyond document similarity: understanding value-based search and browsing technologies
Andreas Paepcke, Hector Garcia-Molina, Gerard Rodriguez-Mula, Junghoo Cho
March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1

Full text available: pdf(1.29 MB)   Additional Information: full citation, abstract, citings, index terms

In the face of small, one or two word queries, high volumes of diverse documents on the Web are overwhelming search and ranking technologies that are based on document similarity measures. The increase of multimedia data within documents sharply exacerbates the shortcomings of these approaches. Recently, research prototypes and commercial experiments have added techniques that augment similarity-based search and ranking.

These techniques rely on judgments about the 'value' of documents. Jud ...

Keywords: World-Wide Web, collaborative filtering, hypertext, information filters, information retrieval, links, metadata, ranking, relevance, search engines

11 Rank-preserving two-level caching for scalable search engines
Paricia Correia Saraiva, Edleno Silva de Moura, Novio Ziviani, Wagner Meira, Rodrigo Fonseca, Berthier Riberio-Neto
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(232.50 KB)   Additional Information: full citation, references, citings, index terms

12 Research sessions: stream management: Online event-driven subsequence matching over financial data streams
Huanmei Wu, Betty Salzberg, Donghui Zhang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(753.59 KB)   Additional Information: full citation, abstract, references

Subsequence similarity matching in time series databases is an important research area for many applications. This paper presents a new approximate approach for automatic online subsequence similarity matching over massive data streams. With a simultaneous on-line segmentation and pruning algorithm over the incoming stream, the resulting piecewise linear representation of the data stream features high sensitivity and accuracy. The similarity definition is based on a permutation followed by a met ...

13 Applications: Inferring relative popularity of internet applications by actively querying DNS caches
Craig E. Wills, Mikhail Mikhailov, Hao Shang
October 2003 **Proceedings of the 2003 ACM SIGCOMM conference on Internet measurement**
Full text available: pdf(257.56 KB)   Additional Information: full citation, abstract, references, index terms

In this work, we propose a novel methodology that can be used to assess the relative popularity for any Internet application based on the data servers it uses. The basic idea is to infer popularity of data servers by periodically "poking" at local Domain Name servers (LDNSs) that service Domain Name System requests from a set of users running Internet applications and determining if LDNSs have cached resource records for the data servers. This approach allows us to measure the relative percentag ...

Keywords: active content measurement, domain name system

14 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available: pdf(6.15 MB)   Additional Information: full citation
Publisher Site

15 Building searchable collections of enterprise speech data
James W. Cooper, Mahesh Viswanathan, Donna Byron, Margaret Chan

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(355.53 KB)   Additional Information: full citation, abstract, references, index terms

We have applied speech recognition and text-mining technologies to a set of recorded outbound marketing calls and analyzed the results. Since speaker-independent speech recognition technology results in a significantly lower recognition rate than that found when the recognizer is trained for a particular speaker, we applied a number of post-processing algorithms to the output of the recognizer to render it suitable for the Textract text mining system. We indexed the call transcri ...

Keywords: document display, search, speech analysis, speech retrieval, text mining

16 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 An overview of query optimization in relational systems
Surajit Chaudhuri
May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(1.42 MB)   Additional Information: full citation, references, citings, index terms

18 Research sessions: Web, XML and IR: FleXPath: flexible structure and full-text querying for XML
Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: pdf(437.86 KB)   Additional Information: full citation, abstract, references

Querying XML data is a well-explored topic with powerful database-style query languages such as XPath and XQuery set to become W3C standards. An equally compelling paradigm for querying XML documents is full-text search on textual content. In this paper, we study fundamental challenges that arise when we try to integrate these two querying paradigms.While keyword search is based on approximate matching, XPath has exact match semantics. We address this mismatch by considering queries on structure ...

19 Data streams and time-series: Evaluating continuous nearest neighbor queries for streaming time series via pre-fetching
Like Gao, Zhengrong Yao, X. Sean Wang
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

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For many applications, it is important to quickly locate the nearest neighbor of a given time

series. When the given time series is a streaming one, nearest neighbors may need to be found continuously at all time positions. Such a standing request is called a *continuous nearest neighbor query*. This paper seeks fast evaluation of continuous queries on large databases. The initial strategy is to use the result of one evaluation to restrict the search space for the next. A more fundamental i ...

Keywords: continuous query, nearest neighbor, streaming time series

20 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

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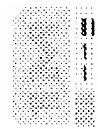*Kreithen, D.E.; Halversen, S.D.;*
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